Serial No.: 10/807,033 Atty. Docket No.: D5543

## IN THE CLAIMS:

1. (Original) A motor vehicle comprising:

an engine;

a controller area network;

an hydraulic power take off pump driven by the engine;

an hydraulic circuit connected to the hydraulic power take off pump for energization;

a plurality of sensors coupled to the hydraulic circuit for generating values for operating variables of the hydraulic circuit;

an auxiliary gauge and switch package connected to the controller area network for data communication;

- a management panel under the control of the gauge and switch package for displaying hydraulic system operating variables and providing operator controls, the auxiliary gauge and switch package providing for generating control signal requests for transmission over the controller area network responsive to operator manipulation of the management panel;
- a valve system controller connected to the controller area network and further coupled to the hydraulic system for monitoring hydraulic system operating variables and controlling hydraulic system valve positions;
- an electrical system controller connected to the controller area network for data communication; and
- a control program resident on a selected one of the controllers connected to the controller area network for integrating power take off operation of the

Serial No.: 10/807,033 Atty. Docket No.: D5543

hydraulic system with vehicle operation and responsive to operating variables and request for control signals for generating control signals.

2. (Original) A motor vehicle as set forth in claim 1, further comprising:

the control program being resident on the electrical system controller.

3. (Original) A motor vehicle as set forth in claim 2, further comprising:

a plurality of engine performance sensitive sensors including a tachometer;

an engine control unit connected to the controller area network for data communication and coupled to the plurality of engine sensors for monitoring engine operating variables and further coupled to the engine for controlling engine output; and

the control program including steps responsive to the hydraulic system operating variables for communicating a request to the engine control unit to increase engine output.

4. (Original) A motor vehicle as set forth in claim 1, further comprising:

a transmission controller providing indication of vehicle transmission status;

means for indicating parking brake status; and

the control program being responsive to the vehicle transmission status and parking brake status for setting an interlock status.

Serial No.: 10/807,033 Atty. Docket No.: D5543

5. (Original) A motor vehicle as set forth in claim 1, the hydraulic system further comprising:

the saddle tank being mounted to a truck frame siderail.

- 6. (Original) A vehicle power take off system comprising:
  - a vehicle prime mover;
  - a hydraulic pump coupled to the vehicle prime mover for energization;

P.5/6

Serial No.: 10/807,033

Atty Docket No.: D5543

a vehicle controller area network including a engine controller for the engine prime mover and an electrical system controller, the engine controller being

responsive to requests from the electrical system controller for changing prime

mover output and the electrical system controller node being programmed to

execute a load management program;

a valve controller connected to the vehicle controller area network;

a valve array under the control of the valve controller for directing pressurized

hydraulic fluid from the hydraulic pump to hydraulic actuators; and

a saddle tank providing a reservoir for hydraulic fluid to be drawn by the hydraulic

pump.

7. (Original) A power take off system as set forth in claim 6, further comprising:

an auxiliary gauge and switch package connected to the vehicle controller area

network for communication with the valve controller; and

a control panel for communication with the valve controller through the auxiliary

gauge and switch package and over the vehicle controller area network.

8-11. (Canceled)

5